

## Title (en)

METHOD FOR MANUFACTURING DEVICE COMPRISING INORGANIC/ORGANIC HYBRID PEROVSKITE COMPOUND FILM AND DEVICE COMPRISING INORGANIC/ORGANIC HYBRID PEROVSKITE COMPOUND FILM

## Title (de)

VERFAHREN ZUR HERSTELLUNG EINER VORRICHTUNG MIT ANORGANISCHEM/ORGANISCHEM HYBRIDEM PEROWSKITEVERBINDUNGSFILM UND VORRICHTUNG MIT ANORGANISCHEM/ORGANISCHEM HYBRIDEM PEROWSKITEVERBINDUNGSFILM

## Title (fr)

PROCÉDÉ DE PRODUCTION DE DISPOSITIF COMPRENANT UN FILM DE COMPOSÉ PÉROVSKITE HYBRIDE INORGANIQUE/ORGANIQUE ET DISPOSITIF COMPRENANT UN FILM DE COMPOSÉ PÉROVSKITE HYBRIDE INORGANIQUE/ORGANIQUE

## Publication

**EP 3244455 A4 20180829 (EN)**

## Application

**EP 16735197 A 20160108**

## Priority

- KR 20150002536 A 20150108
- KR 2016000176 W 20160108

## Abstract (en)

[origin: EP3244455A1] A method for manufacturing a device comprising an inorganic/organic hybrid perovskite compound film, according to the present invention, comprises the steps of: a) laminating a first structure and a second structure to allow the first surface layer and the second surface layer to be in contact with each other, the first structure comprising a first surface layer containing at least one of materials i) to v) below, the second structure comprising a second surface layer containing, independently from the first surface layer, at least one of materials i) to v) below; and b) applying heat and physical force to the laminate in which the first structure and the second structure are laminated: i) an inorganic/organic hybrid perovskite compound, ii) an organic halide, iii) a metal halide, iv) an inorganic/organic hybrid perovskite compound precursor, and v) a metal halide precursor.

## IPC 8 full level

**H01L 51/48** (2006.01)

## CPC (source: CN EP KR US)

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## Citation (search report)

- [XY] JP 2014056921 A 20140327 - PECCELL TECHNOLOGIES INC
- [IY] CHANG-WEN CHEN ET AL: "Optical properties of organometal halide perovskite thin films and general device structure design rules for perovskite single and tandem solar cells", JOURNAL OF MATERIALS CHEMISTRY A, vol. 3, no. 17, 31 October 2014 (2014-10-31), GB, pages 9152 - 9159, XP055494462, ISSN: 2050-7488, DOI: 10.1039/C4TA05237D
- See also references of WO 2016111576A1

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WO2022180170A1; CN112201755A; EP3991220A4; JP2020025059A; US11145466B2; EP3347502A4; JP2018528326A; US10790096B2; WO2019173803A1; DE102021201746A1

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